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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Masaki OKAMURA et al.

Attn: PCT Branch

Application No. New U.S. National Stage of PCT/JP2004/010249

Filed: December 9, 2005

Docket No.: 126234

For: LOAD DRIVER CAPABLE OF SUPPRESSING OVERCURRENT

SUBMISSION OF THE ANNEXES TO THE
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached hereto is a submission of the annexes to the International Preliminary Report on Patentability (Form PCT/IPEA/409). The attached material replaces the claims in their entirety.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Eric D. Morehouse
Registration No. 38,565

JAO:EDM/nxy

Date: December 9, 2005

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

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CLAIMS

1. (Amended) A load driver comprising:

an inverter (20) driving a load (MG);

5 a voltage converter (11) executing voltage conversion between a power supply (B) and said inverter (20); and

a control device (30) controlling said inverter (20) to drive said load (MG) by changing control mode of said load (MG) from a rectangular-wave control mode to one of a pulse-width-modulation control mode and an overmodulation control mode, upon 10 receiving a command to perform a boosting operation by said voltage converter (11) when the control mode of said load (MG) is said rectangular-wave control mode.

2. (Amended) The load driver according to claim 1, wherein

said control device (30) controls said inverter (20) to drive said load (MG) by

15 changing said control mode to said pulse-width-modulation control mode.

3. The load driver according to claim 1 or 2, wherein

said control device (30) controls said inverter (20) to drive said load (MG) by

further suppressing increase of a torque command value.

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4. A load driver comprising:

an inverter (20) driving a load (MG);

a voltage converter (11) executing voltage conversion between a power supply (B) and said inverter (20); and

25 a control device (30) controlling said inverter (20) to drive said load (MG) by suppressing increase of a torque command value, upon receiving a command to perform a boosting operation by said voltage converter (11) when control mode of said load (MG) is a rectangular-wave control mode.

5. (Amended) A load driver comprising:
an inverter (20) driving a load (MG);
a voltage converter (11) executing voltage conversion between a power supply
5 (B) and said inverter (20); and
a control device (30) controlling said inverter (20) to drive said load (MG) in
one of a pulse-width-modulation control mode and an overmodulation control mode
when said voltage converter (11) performs a boosting operation.